

# SEQUENCE LISTING

<110> Vinetz, Joseph M

<120> Plasmodium Sp. Chitinase

<130> 026.00101

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<150> US 60/136,508

<151> 1999-05-28

<150> US 60/180,051

<151> 2000-02-03

<160> 26

<170> PatentIn Ver. 2.1

<210> 1

<211> 1137

<212> DNA

<213> Plasmodium falciparum

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009250 EEE64560

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<211> 378  
<212> PRT  
<213> Plasmodium falciparum

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009250" EEE6/550

20	25	30
Pro Gly Glu Ser Arg Lys Asn Pro Arg Glu Ile Ile Lys Thr Phe Lys		
35	40	45
Glu Ser Gly Lys Gly Ile Ile Gln Gly Tyr Tyr Pro Ser Trp Val Ser		
50	55	60
Tyr Asn His Asn Leu Lys Asp Leu Asn Pro Asn Leu Asn Val Val His		
65	70	75
Met Ser Phe Ala Lys Met Asp Leu Ser Tyr Asp Ser Ile Glu Ser Ile		
85	90	95
Val Gly Ser Pro Leu Leu Phe Lys Ser Leu Ile Gly Leu Glu Tyr Ile		
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Gly Leu Asn Glu Tyr Phe Asn Asp Ala Met Asn Leu Arg Lys Ala Arg		
115	120	125
Pro Asp Ile Ile Met Leu Leu Ser Leu Gly Gly Glu Thr Tyr His Pro		
130	135	140
Ser Ser Phe Asp Ser Ala Leu Asn Ala Val Glu Lys Ile Ala Asn Leu		
145	150	155
Val Asp Glu Leu Gly Phe Asp Gly Ile Asp Val Asp Tyr Glu Pro Asn		
165	170	175
Gly Ser Phe Asp Gly Leu Asn Asp Lys Glu Lys Ala Asp Phe Phe Val		
180	185	190
Gln Tyr Val Thr Lys Leu Arg Glu Tyr Met Cys Asp Asp Lys Leu Ile		
195	200	205
Ser Ile Ser Gln Ser Ser Asn Gly Ala Leu Ser Cys Ile Gly Phe Asn		
210	215	220
Asp Pro Lys Lys Ile Cys Met Asp Asp Glu Ala Pro Tyr Asn Ser Lys		
225	230	235
Tyr Phe Asn Lys Pro Asp Val Lys Lys Glu Leu Leu Arg Ala Ala Gln		
245	250	255
Met Ala Ser Ala Gly Gly Ala Ile Tyr Leu Met Asn Asn Leu Lys Asp		
260	265	270
Met Ile Asp Met Val Phe Val Gln Thr Phe Asn Tyr Thr Asn Ser Thr		

009250" E8E6/560

275	280	285
Asp Ser Thr Val Met Lys Glu Leu Tyr Asp Ser Tyr Ala Tyr Tyr Gly		
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Lys Lys Tyr Asp Tyr Val Ile Ile Met Gly Phe Thr Leu Met Phe Pro		
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Ser Thr Pro Phe Asn Pro Asn Asp Lys Met Leu Val Lys Ser Ile Gly		
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Asp Phe Val Lys Thr Glu Asn Lys Leu Asn Lys Arg Ala Asp Gly Phe		
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Leu Gly Ile Ile Arg Glu Asn Lys Asn Lys Thr His Gln Thr Glu Ile		
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His Glu Ser Phe Ser His Leu Lys Ser Asn Asn Ser Asn Phe Val Glu		
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Tyr Gly Ser Tyr Cys Gly Asp Gly Cys Asn Ser Arg Ile Thr Lys Asn		
	65	70 75 80
Asn Lys Asn Ile Asn Lys Asn Asp Arg Lys Ser Pro Arg Gln Ile Leu		
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Glu Glu Tyr Lys Lys Arg Lys Gln Gly Ile Ile Ala Gly Tyr Tyr Gly		
	100	105 110

009250" E8E64560

Ser Trp Asn Ser Gln Gly Asp Arg Ala Lys His Met Ile Asp Ser Asn  
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Pro Met Val Ser Ile Leu Tyr Ile Ala Phe Ala Arg Ile Asn Met Leu  
130 135 140

Tyr Asp Val Ser Arg Pro Phe Asn Gly Arg Gln Arg Phe Leu Leu Arg  
145 150 155 160

Lys His Gly Leu Glu Tyr Glu Thr Tyr Gly Met Met Leu Asn Glu Ile  
165 170 175

Arg Arg Ile Arg Lys Val Arg Pro Asp Val Ile Ile Leu Leu Ser Leu  
180 185 190

Gly Gly Glu Thr Tyr Met Ile Asp Ile Glu Lys Glu Ile Asp Tyr Val  
195 200 205

Asp Lys Ile Leu Lys Leu Val Asn Asp Phe Asp Leu Asp Gly Val Asp  
210 215 220

Ile Asp Trp Glu Pro His Gly Lys Phe Tyr Asn Leu Asn Glu Leu Asn  
225 230 235 240

Phe Ser Asn Tyr Tyr Ile Lys Leu Ile Asn Leu Leu Arg Lys Thr Ile  
245 250 255

Pro Glu Glu Lys Leu Ile Ser Ile Ser Gly Ser Ser Asn Ala Ala Leu  
260 265 270

Ser Cys Val Ser Gly Val Ala Ser Phe Cys Lys Asp Glu Glu Ser Pro  
275 280 285

Tyr Asn Thr Lys Phe Leu Ser Glu Gln Ile Glu Thr Asn Lys Glu Leu  
290 295 300

His Arg Ala Ala Ala Met Leu Ser Ala Gly Thr Phe Ile Asn Ile Phe  
305 310 315 320

Asn Thr Ala Lys Glu Lys Ile Asp Leu Val Phe Ile Gln Thr Tyr Asn  
325 330 335

Leu Glu Thr Thr Asn Pro Asp Ile Met Val Asp Met Tyr Leu Ser His  
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Leu Tyr Phe Gly Leu Lys Tyr Asn Ile Thr Ile Ile Leu Gly Phe Ser  
355 360 365

005250" E8E6Z560

Leu Glu His Asn Arg Gly Gly Phe Ser Pro Glu Asn Lys Glu Leu Leu  
 370 375 380

Glu Leu Val Gly Lys Thr Ile His Asp Lys Asn Gln Asn Asn Asn Arg  
 385 390 395 400

Ala Asp Gly Ile Gly Ile Trp His Leu Phe Met Lys Glu Gln Leu Pro  
 405 410 415

Thr Gly Ser Phe Asp Val Asp Ile Phe Leu Thr Asn Ile Trp Lys His  
 420 425 430

Leu Asn Pro Glu Val Gln Thr Pro Lys Asp Leu Thr Ile Thr Glu Asn  
 435 440 445

Pro Glu Asp Cys Ser Thr Ile Asp Glu Tyr Val Pro Gly Leu Val Ile  
 450 455 460

Pro Thr Ile Gly Ile Tyr Tyr Lys His Asn Asp Ala Ile Trp Lys Thr  
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Arg Ser Tyr Ser Ile His Ala Pro Gly Val Asp Arg Tyr Glu Trp Asp  
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Leu Val Lys Val Cys Tyr Glu Lys Ile Cys Asp Gly Lys Ala Ala His  
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Tyr Tyr Asn Thr Asp Tyr Lys Glu Ser Ser Ile Ile Ile Trp Lys Gly  
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Glu Pro Tyr Leu Ile Lys Trp Trp Gln Gln Gly Pro Pro Glu Gly Gln  
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Ala Leu Glu Ser Tyr Thr Lys Leu Asp Ala Ser Lys Cys Pro Gly Ile  
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<211> 2500

<212> DNA

<213> Plasmodium gallinaceum

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<212> PRT

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<213> Plasmodium falciparum

<400> 6

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<210> 7

<211> 27

<212> DNA

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<223> i

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<211> 24

<212> DNA

<213> Artificial Sequence

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<222> (6)

<223> i

<220>

<221> modified\_base

<222> (18)

<223> i

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<221> modified\_base

<222> (21)

<223> i



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<213> Plasmodium gallinaceum

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42

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<212> DNA

<213> Artificial Sequence

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<211> 23

<212> DNA

<213> Artificial Sequence

<220>

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<211> 23

<212> DNA

<213> Artificial Sequence

009250" E8E6/560

<220>

<223> Description of Artificial Sequence: synthetic  
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23

<210> 23

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
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23

<210> 24

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic  
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24

<210> 25

<211> 7

<212> PRT

<213> Plasmodium falciparum

<220>

<223> consensus sequence of substrate-binding site

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5

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<213> Plasmodium falciparum

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15